BenQ DC E1050t Digital Camera
User Manual

Welcome

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This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more information about recycling of this equipment, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

Hereby, BenQ Corp. declares under our responsibility that the product is in conformity with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating, Electromagnetic Compatibility Directives (2004/108/EC) and Low Voltage Directive (2006/95/EC).

A “Declaration of Conformity” in accordance with the above Directives has been made and is available from BenQ Corp. upon request.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Taking care of your camera

- The camera operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.
- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - Highly humid or dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
  - Unstable locations
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not use solvents, such as alcohol, to clean your camera.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens. Do not touch the lens with your fingers.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the battery. Next, remove the foreign substance or water, and send it to the maintenance center.
- Transfer the data to the computer as soon as possible to avoid losing your images or video clips.
- If the lens cannot retract into the camera, please replace the battery first (usually this is because of a drained battery). Then the lens should retract automatically. If the lens still cannot retract, please contact your dealer.
- Under no circumstances should you push the lens back manually as this may damage the camera.

English

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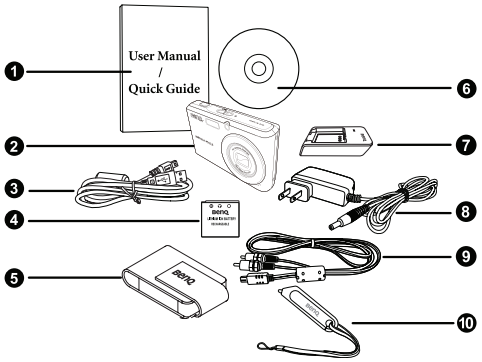
Touring the camera

Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.

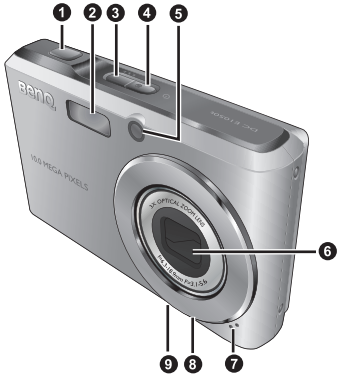


1. User manual/Quick start guide
2. Digital camera
3. USB cable
4. Battery
5. Leather case
6. Software CD
7. Battery charger
8. Adapter
9. AV cable
10. Hand strap and stylus

- All pictures, screen captures, and icons used in this manual and the gift box are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- It is recommended to save the packaging in case you need to ship the camera for service in the future.

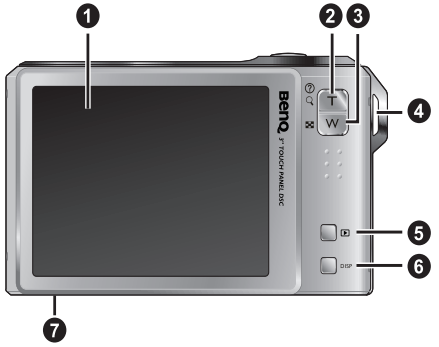
Camera components

Front view



1. Shutter button
2. Flash
3. S.S.F. (Super Shake-Free) button
4. Power button ⏻ / Status LED indicator
5. AF Assist Lamp / Self-timer LED indicator
6. Lens and lens cover
7. Microphone
8. Tripod mount
9. USB port

Rear view



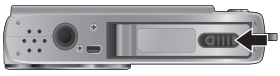
1. Touch screen (LCD display)
2. T (Tele): Zoom-in / Scene mode description on or off
3. W (Wide): Zoom-out or thumbnail view (playback)
4. Strap eyelet
5. Play button ▶ (toggling between capture and playback modes)
6. Display button DISP
7. Speaker

- It is normal for the camera to become warm during operation, because metal camera casing can conduct heat.
- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.

Preparing the camera for use

Use only the specified battery for the camera, and always turn off the camera before removing the battery.

A

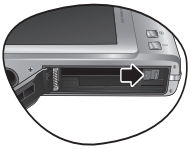


B

To install the battery:

1. Open the battery/SD card cover (A).
2. Insert the battery in the correct direction (B).
3. Push the battery all the way down, until the battery lock lever clicks into place (C).
4. Close the battery/SD card cover (D).

C



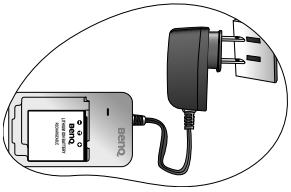
To remove the battery:

1. Open the battery/SD card cover.
2. Release the battery lock lever.
3. When the battery has come out a little, gently pull it out the rest of the way.
4. Close the battery/SD card cover.

D

Charging the battery

The battery charge status affects the camera performance. To maximize the performance and the battery life, fully charge the battery using the specified charger and adapter, and then fully discharge it through normal use at least once.



To charge the battery:

1. Insert the battery into the charger.
2. Connect one end of the adapter to the charger.
3. Connect the other end of the adapter to a wall outlet.
4. When the battery is being charged, the charger LED indicator lights up in red. When the battery is fully charged, it turns into green.

- Damage caused by the use of an incorrect charger set is not covered under the warranty.
- The battery may be warm after being charged or used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its battery warm by holding it inside your jacket or another warm protective environment.
- Remove the battery from the camera if you do not intend to use the camera for a long time.

Using touch screen and buttons

You can use the stylus or your finger (may leave fingerprints on the screen) to select options available from the touch screen. Some operations must work with buttons (such as DISPLAY [DISP] and Play [▶]). This user manual uses “tap”, “circle”, or “swipe” when referring to touch screen actions and “press” when referring to button actions.

Using an SD card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also use an SD (Secure Digital) card to store more files.

To install an SD card:

1. Make sure the camera is turned off.
2. Open the battery/SD card cover.
3. Insert an SD card in the correct direction.
4. Close the battery/SD card cover.

To remove an SD card:

1. Make sure the camera is turned off.
2. Open the battery/SD card cover.
3. Lightly press the edge of the SD card to eject.
4. Close the battery/SD card cover.

- Before initial use of an SD card, tap > > > **Manage Memory** > **Format** to format the card first. Remember to slide the write-protect tab (on the side of the SD card) to the unlock position. Otherwise, all data (if any) on the SD card is protected and the card cannot be formatted.

Setting language

This is to select the language version to show on the screen.

To select a language:

Tap > > > **Language**, and tap a language (tap / to find more languages as needed).

Setting date and time

You need to set the date and time the first time you use the camera, or when the camera battery has been removed for a long time.

To set date and time:

1. Tap > > > **Date Format**, and tap the screen to select preferred formats.
2. Tap **Date/Time**, and then tap / to select the correct date and time.
3. Tap .
4. Tap to exit.

Operating the camera

The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

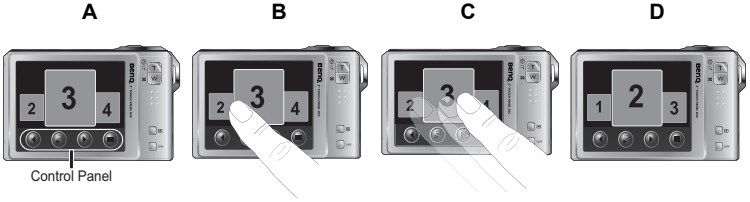
1. Press .
2. Tap for desired options; tap for more options.
3. Follow the on-screen display (and instructions wherever available) and tap the corresponding icon to access and set more options. At any time, you can cancel the current operation by tapping to return to your previous step.
4. Press **T** to zoom-in or **W** to zoom-out.
5. Press the shutter halfway to set automatic focus and exposure.
6. Press the shutter down fully to capture.
7. Release the shutter.
8. In the **Movie Record** mode, press the shutter to stop video recording.

- If you press the shutter halfway to set automatic focus, the camera is ready to capture when the auto focus frame is yellow. If there is no auto focus frame or the frame is red and you press the shutter down, it might result in blurred photos.
- During zoom-in/out, there is a separator in the zoom bar between **W** and **T**. For best image quality, it is recommended to use optical zoom only by keeping the magnification within W and the separator.
- Flash is automatically turned off in the Movie Record mode.
- The Movie Record mode records both sound and video. Yet, sound is not recorded during zoom-in/out.
- At any time, you can press to turn off the camera.
- In the capture or playback mode, press DISP repeatedly to show different information on the screen.

Viewing captured images and videos

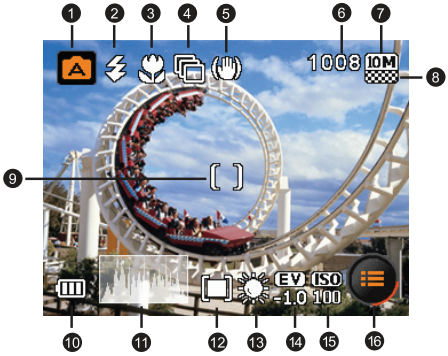
To enter the playback mode, press ▶ to view the image or video just captured.

- To view the previous image/video, swipe and slide the screen (at least 1/3 of the width; see the illustrations below from A to C) to the right, or tap on the Control Panel.
- To view the next image/video, swipe and slide the screen (at least 1/3 of the width) to the left, or tap on the Control Panel.
- Press **W** and you can still use the Swipe-to-Slide feature to view captured images and recorded videos in a loop.
- Press **W** again to view 12 thumbnails on the screen.



- You can toggle between the above two playback modes by pressing **T** and **W**.
- To zoom-in/out an image, press T or W, or you can use the stylus or your fingertip to circle the area you want to zoom in directly on the screen. You can also drag the image to see a certain area or tap to crop the image.
- If a photo was captured in the portrait orientation and then you saved it into the landscape orientation, the photo will still rotate back into the portrait orientation temporarily when you enlarge it on your camera.
- For a video file, tap to start playback.
- Tap to start the slideshow playback.
- Tap for more options.
- Anytime in the playback mode, you can press ▶ or the shutter to switch to the capture mode.
- For image/audio/video files captured by other devices, your camera may not be able to show the detailed file information (such as resolution) or to edit them (using **My Drawings** or **Add Memo**, for example).

Capture mode



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Scene mode

Select one of the following scene modes to fit your shooting condition.

Icon	Mode	Description
	Auto	The camera automatically decides most settings, so you can capture images with ease.
	Program	You can set the shooting parameters manually.
	Movie Record	Captures videos with sound. When viewing the captured video file later, tap the ▶ icon to play it.
	Portrait	Makes the subject (usually a person) stand out with a brighter look.
	Landscape	Captures natural scenery and subjects in the distance.
	Sports	Captures a fast-moving subject.
	Backlight	Increases exposure (by turning on the flash) when light illuminates the subject from behind.
	Night Scene	Captures photos in a low-light environment, such as in the evening or at night.
	Beach	Captures photos in a brightly lit environment, such as beaches.
	Snow	Increases contrast to highlight the texture and layers of snow.
	Fireworks	Increases the exposure time to capture fireworks. Use of tripod is recommended.
	Night Portrait	Captures photos of a subject against a night scene. Use of a tripod is recommended.
	Self Portrait	Helps take a picture of yourself (and other subjects if available).
	Building	Enhances the edges of the subject.
	Soft Flowing Water	The shutter speed is lowered to prevent blurred images. Use of a tripod is recommended.
	L. Portrait	Focuses on the subjects and keeps the background blurred slightly.
	Web Auction	Optimizes image file size for use on the Internet. ☞ Images captured in Web Auction mode are stored under the XXX_AUCT directory (XXX are numbers).

	High ISO Portrait	Makes people stand out with the background out-of-focus even in a dark environment. In this mode, a higher ISO value is used.
	Food	Captures food by enhancing color brightness and giving more vivid colors.
	Museum	Captures photos with flash function disabled.
	Candle Light	Captures subjects illuminated by candle light.
	Party	Captures in-door activities in a dim light.
	Text	Increases contract when taking a close-up photo.
	Child	Captures images of moving kids.
	Sunset	Increases white balance to enhance photos taken at sunset.
	Flower	Captures images of brightly colored flowers by enhancing their soft outlines.
	Pet	Increases sensitivity to capture images of pets.
	Smile Catch	Automatically takes a shot when a smile is detected.
	Voice Rec.	Captures background sound only (no images or videos).

- ISO sensitivity, Metering, and White Balance are not available for some scene modes (such as Auto).
- When S.S.F. is turned on, you cannot adjust the ISO sensitivity.

To select a scene mode:

1. Tap and the icon that represents the current scene mode.
2. Tap another icon of your choice.
3. Tap to confirm and exit.

If you want to know the description of a certain scene quickly, tap ? (or press **T**) and then the desired scene. The scene info window opens. Tap to select this scene mode.

When the icon shows in a thumbnail or on the screen, this means that the file is in an unknown file format or has been corrupted.

Using Smile Catch:

Smile Catch automatically captures smiling moments.

1. Tap and select from the scene mode icons.
2. The camera is tracking the face of your subject (each subject is tracked by an auto focus frame; maximum 8 subjects can be tracked).
3. Press the shutter down to activate smile tracking, and release the shutter immediately. The camera is now tracking the smile of your subject (the auto focus frame turns into yellow when a smile is detected).
4. Once a smile is detected, the camera instantly takes a picture.
5. The camera continues to detect smiles and takes more pictures (Step 4 is repeated). To stop the smile tracking at anytime, press the shutter.

- In order to detect smiles easily and obtain better image quality, it is recommended to have your subject facing toward the lens in the Smile Catch mode.
- The camera will only stop smile tracking when the shutter is pressed again.
- Face tracking is always on in the Smile Catch mode.
- It is recommended to turn off the flash in the Smile Catch mode, so the camera can save time in recharging and continue to catch more smiles.

Flash mode

The flash provides an additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
	Auto	The flash fires automatically based on the photographic conditions.
	Force off	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.
	Force on	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.
	Auto Anti Red-eye	Reduces the red-eye phenomenon to capture natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
	Anti Red-eye	Reduces the red-eye phenomenon to capture natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash always fires regardless of the surrounding lighting conditions.

	Slow Sync	Fires the flash for proper exposure of the subject, and uses a slow shutter speed to capture ambient light for proper exposure of the background. Useful for capturing night scenes with still subjects (such as portraits). Use of tripod is recommended.

To select a flash mode:

1. Tap and the icon that represents the current flash mode.
2. Tap another icon of your choice.
3. Tap to confirm and exit.

☞ To change the intensity of the flash, tap > > > > **Flash Intensity**.

Focus mode

Icon	Mode	Description
	Auto	This is the auto focus mode.
	Macro	Captures subjects at close range.
	Pan Focus	Captures everything (for example, fast-moving objects or subjects in the dark) from near to far in an acceptable focus.
	Infinity	Captures subjects across long distances. The flash is off in this mode.

To select a focus mode:

1. Tap and the icon that represents the current focus mode.
2. Tap another icon of your choice.
3. Tap to confirm and exit.

Drive mode

Icon	Mode	Description
	Standard	Self-timer and Continuous Shooting are disabled.
	10 sec Self-timer	Automatically takes a picture after a 10 second delay. This mode is useful when you want to be part of the picture.
	2 sec Self-timer	Automatically takes a picture after a 2 second delay.
	Continuous Shooting	Continuously takes pictures as long as you keep pressing the shutter. The flash is always off in this mode.
	Auto Exposure Bracketing (AEB)	Automatically takes 3 pictures with different EV compensation for you to choose from later.
	Speedy Burst	Press and release the shutter. When the photo size you select is VGA, Speedy Burst will shoot continuously at the speed of 12 shots per second. This will stop after 1 second or when the memory card is full.

To select a drive mode:

1. Tap and the icon that represents the current drive mode.
2. Tap another icon of your choice.
3. Tap to confirm and exit.

Quality

Icon	Option	Description
	Fine	Best image quality with the lowest compression rate. File size is the largest.
	Normal	Better image quality with medium compression rate. File size is medium.
	Economy	Good image quality with the highest compression rate. File size is the smallest.

To select an image quality level:

1. Tap .
2. Tap and then .
3. Tap **Quality**. The icon that represents the current quality level is highlighted.
4. Tap another icon of your choice.
5. Tap to exit.

ISO sensitivity

The higher the ISO value, the more noise you may see in the image.

Icon	Description
	Automatically sets the ISO value.
	Equivalent to color ISO 100/200/400 film. Used for outdoor photography in bright sunlight.
	Equivalent to color ISO 800/1600/3200 film (ISO 3200 for images at 3 megapixels or lower). Used it in a low-light environment or where the flash light is not allowed.

To select an ISO value:

1. Tap and the icon that represents the current ISO value.
2. Tap another icon of your choice.
3. Tap to confirm and exit.

☞ You may not be able to select the ISO value if you use certain scene modes, such as (Auto) and (High ISO Portrait).

Metering (Automatic exposure metering)

Icon	Mode	Description
	Matrix	Detects the exposure based on multiple points in the subject area.
	Center Weight	Detects the exposure of the entire shooting screen, but gives more importance to the values near the center.
	Spot	Detects the exposure based on the center spot in the subject area.

To select an AE option:

1. Tap .
2. Tap and then .
3. Tap **Metering**. The icon that represents the current AE setting is highlighted.
4. Tap another icon of your choice.
5. Tap to exit.

White balance

White balance compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

Icon	Mode	Description
	Auto	Adjusts white balance automatically.
	Daylight	Adjusts white balance for bright daylight conditions.
	Cloudy	Adjusts white balance for cloudy, twilight, or shady conditions.
	Tungsten	Adjusts white balance for subjects lit by tungsten (incandescent) lighting.
	Fluorescent	Adjusts white balance for subjects lit by fluorescent lighting.
	Manual	Manually adjust white balance.

☞ You may not be able to select White Balance if you use certain scene modes, such as (Auto).

To select white balance:

1. Tap .
2. Tap and then .
3. Tap and then **White Balance**. The icon that represents the current white balance setting is highlighted.
4. Tap another icon of your choice.
5. Tap . (If you select the manual mode, the icon pops up. You must first tap and point the adjustment frame shown on the touch screen at a blank sheet of white paper (or something similar), and then tap to let the camera detect proper colors.)
6. Tap to exit.

Effect

You can add special effects to your images in capture mode.

Icon	Mode	Description
	Normal	No effect is added to the image.
	Vivid	Recorded image will be stored in a bright and lively tone.
	Sepia	Recorded image will be stored in a sepia tone.
	B/W (Black/White)	Convert image to black & white.
	Vivid Red	Recorded image will be stored in a bright and lively red tone.
	Vivid Green	Recorded image will be stored in a bright and lively green tone.
	Vivid Blue	Recorded image will be stored in a bright and lively blue tone.

To select an effect:

1. Tap .
2. Tap and then .
3. Tap and then **Effect**. The icon that represents the current effect is highlighted.
4. Tap another icon of your choice.
5. Tap .
6. Tap to exit.

AF Area

Icon	Mode	Description
	Center	Focuses on the center of the touch screen.
	Wide	Focuses on subjects in a wider focusing area.
	Manual	You can manually decide the auto focusing area by dragging the frame within the boundary shown on the touch screen.
	Touch Shot	You can manually decide the auto focusing area by dragging the frame within the boundary shown on the touch screen. A shot is taken when the finger is released.
	Face Tracking	Focuses on the people in your composition by automatically detecting and tracking human faces.

To select an automatic focus option:

1. Tap .
2. Tap and then .
3. Tap and then **AF Area**. The currently selected icon of auto focus option shows.
4. Tap another icon of your choice.
5. Tap to exit.

Using Face Tracking:

1. Follow the steps above to select **Face Tracking** in **AF Area**.
2. Aim the lens at the subject(s). One or several white frames show on the screen focusing on the subjects, depending on the number of subjects detected by the camera.
3. Press the shutter halfway to set automatic focus.
4. Wait until the frames turn yellow, and press the shutter down.

☞ In order to detect the face(s) easily and obtain better image quality, it is recommended to have your subjects facing toward the lens when you use Face Tracking.

EV compensation

EV (exposure value) lightens or darkens the entire image. Adjust EV compensation when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.

To set EV compensation:

1. Tap and the icon that represents the current EV compensation.
2. Tap any position of the EV compensation bar or tap +/- of your choice.
3. Tap .
4. Tap to confirm and exit.

Setting sharpness, saturation, contrast & instant review

You can adjust how colors appear in the pictures by setting sharpness, saturation, and contrast.

1. Tap .
2. Tap and then .
3. Tap for **Sharpness**, **Saturation**, and **Contrast**. The icons that represent the current settings for these three options show.
4. Tap an option to select it, and then tap an icon of your choice. You can select **Low**, **Normal**, or **High**.

Also, you can select the display time for captured images.

1. Tap .
2. Tap and then .
3. Tap **Instant Review**.
4. You can select the duration (in seconds) an image is displayed right after you capture it, or turn the feature off.
5. Tap twice to exit.

Other capture options

More options are available for image settings in > > .

Icon	Option	Description
	Flash Intensity	Sets the intensity of the flash.
OFF	Photo Frame	Adds a photo frame to the image. • If the original image size is larger than 3M, the image size will be automatically changed to 3M. • If the original image size is 3M or smaller, the original image size will be retained.
	Date Stamp	Adds the date, time, or both to the image.
ON	AF Assist Lamp	Assists the auto focus system when shooting in low light conditions.

Movie Record mode settings

If you select (Movie Record) as the scene mode, different options are available in the Quick Bar. You can change the settings but you cannot customize the options shown in the Quick Bar.

Icon	Mode	Description	Page reference
VGA	Video format	Displays video file format and size.	--
30	Frame rate	Displays frames captured per second.	--
	White balance	Compensates for color temperatures in different lighting conditions.	--
	More options	Displays more options.	--
	Video quality	Sets the degree of video quality.	--
AF	Focus	--	11
	Effect	Adds special effects.	--
	Close	Hides the Quick Bar.	--

The default frame rate is 30 when using the Movie Record mode.

System settings

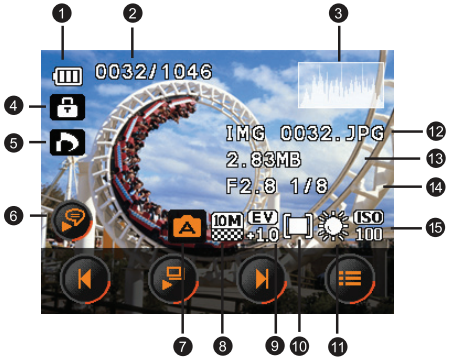
To change the system settings, tap > and then . Tap / to find more options.

Icon	Mode	Description
	Manage Memory	Formats the internal memory or the SD card.
	Instant Review	Sets the display time of each captured photo.
	Digital Zoom	Sets a zoom setting for the camera to remember (useful when you turn it on next time). Wise Zoom reduces the image size, and thus increases the effective zoom length without sacrificing image quality.
	System Sound	Sets system sounds to on or off.
	Volume	Sets the volume for playback.
	LCD Brightness	Sets the brightness of the touch screen.
	Power Saving	Sets the idle time before the camera enters the power-saving mode. The camera automatically turns off 2 minutes after entering the power-saving mode.
--	Date/Time	Sets the date and time.
	Date Format	Sets the displayed time format.
	TV Format	Sets the video format (such as NTSC or PAL) when connecting to an AV system like TV.
--	Hot Key	Sets the options shown in the Quick Bar.
--	Startup Image	Sets the startup image displayed when the camera is turned on.
--	Reset	Returns all settings to the factory default values or resets the file number.
	Language	Sets the displayed language on the touch screen.

Playback mode

Press ▶ to enter the playback mode.

You can press DISP to show different information on the screen.



☞ • When the camera is off, pressing ▶ will enter the playback mode.
• In the capture mode, press ▶ to enter the playback mode.
• In the playback mode, press ▶ or the Shutter to switch to the capture mode.

Item	Description
1	Battery status
2	File number
3	Histogram
4	Protected file
5	DPOF
6	Voice Memo
7	Scene mode
8	Image size and quality
9	EV compensation
10	AE Metering
11	White balance
12	File name
13	File size
14	Aperture and shutter speed
15	ISO sensitivity

Options for playback and editing

By default, ten options show when you tap on the screen.

Icon	Mode	Description	Page reference
	My Drawings	Adds your own drawing to a captured image.	22
	Rotation	Rotates images by certain degrees.	24
	Z-Lighting	Adjusts lighting (mainly enhances the brightness and contrast in the darker areas of a picture) to improve overall exposure quality.	24
	Protect	Protects the selected image from deletion.	24
	More options	Displays more options.	--
	Add Memo	Adds callouts to a captured image.	22
	Photo frame	Adds a photo frame to a captured image.	24
	DPOF	Enters the Digital Print Order Format (DPOF) data for selected images or all images. A DPOF-compatible printer can read this data for printing.	25
	Delete	Deletes captured files.	25
	Close	Hides the Quick Bar.	--

To select a playback/edit option:

1. Press ▶ and select an image. Then tap .
2. The available icons of playback/edit options show. Tap the one you need. Options available may vary depending on the image size.
3. Follow the on-screen instructions.

Using My Drawings and Add Memo

Add preset or customized drawings (including handwriting), stamps, and callouts to an image.

- Drawings/stamps/callouts (described as “scribbles” below) cannot be added to an audio/video file, or to an image of 3:2 or lower than 3M.
- After scribbles are added to an image and saved, the image is automatically resized to a 3M image.

1. Tap ▶ and select an image.
2. Tap > (My Drawings) or (Add Memo). The toolbar is automatically displayed. Select a tool, and customize its type and color. (For details on the icons of the tools, see below.)
3. Tap DISP. You are ready to add your drawings or texts to the image.
4. To change tools/types/colors, you need to tap DISP again to access the toolbar.
5. To undo your last move, tap [UNDO]; to erase all drawings on the selected image (before you save the settings), tap [RESET].
6. To save the modified image, tap . Or you can tap > [YES] to discard the modified image and exit.

Icon	Tool	Description
	Line	Creates lines such as handwriting. **To create lines:** 1. Tap , and then tap ● for a type and ■ for a color. 2. Tap DISP. 3. Start tapping on the touch screen, and then drag your finger or stylus to create lines.
	Stamp (for **My Drawings** only)	Selects a preset stamp. **To select a preset stamp:** 1. Tap , and then tap for a preset stamp and ■ for a color. 2. Tap DISP. 3. On the touch screen, tap the location where you want to add a stamp. You can add as many stamps as you want, or repeat step 1 to add other types of stamps.
	Frame (for **Add Memo** only)	Selects a preset frame for a callout. **To select a preset frame:** 1. Tap , and then tap for a preset frame and ■ for a color. 2. Tap DISP. 3. On the touch screen, tap the location where you want to add a frame. You can add as many frames as you want, or repeat step 1 to add other types of frames.
	Eraser	Removes part or all of the scribbles. **To use the eraser:** 1. Tap , and then tap ● to select an eraser type (from thin to thick). 2. Tap DISP. 3. On the touch screen, tap the location where you want to remove the scribbles, and then drag your finger or stylus to start removing.
	Undo / Redo	Used to undo or redo your last move.
	Reset	Removes all scribbles.
	Save	Saves the modified file. Tap **Save As** to save as a new file; tap **No** to exit; tap **Overwrite** to replace the current file.

	Discard	Discards the modified file.

Rotating an image

Changes the orientation of an image.

To rotate an image:

1. Tap ▶ and select an image.
2. Tap > , and then tap a thumbnail in the orientation you want. The newly rotated image overwrites the original one and shows on the screen.

Adding Z-Lighting effect

1. Tap ▶ and select an image.
2. Tap > . Tap the lighting bar. The Z-Lighting effect (mainly enhancing the brightness and contrast in the darker area of a picture) improves overall exposure quality.
3. Tap to save the setting and exit.

Protect

Prevents selected files from accidental removal.

To protect files:

1. Tap ▶ and select an image.
2. Tap > .
3. Select whether to protect this selected file or all files.
4. Select **Yes** to enable protection. To select multiple files, tap **Select** and tap more files. Each protected file has the icon when viewed. Then select and **Yes**.
5. To disable protection, follow preceding step 1 to 3, and tap **Yes** to unprotect the file.

Adding a photo frame

Adds a preset decorative frame to an image.

To add a photo frame:

1. Tap ▶ and select an image.
2. Tap > , and then tap / to select a photo frame of your choice.
3. Tap and then choose to overwrite or save the image as a new file.

- A photo frame cannot be added to an audio/video file.
- After a photo frame is added to an image in the size of 3M or above, this image will be automatically resized to a 3M image.

DPOF

Enters the Digital Print Order Format (DPOF) data for selected images or all images. A DPOF-compatible printer can read this data for printing.

To enter DPOF data:

1. Tap ▶ and select an image.
2. Tap ☰ > 🖨 .
3. Select the current image or all images to add DPOF. To select multiple files, tap **Select** and tap more files. Then tap OK.
4. Select whether to print the date, and number of copies to print.
5. Tap OK.

Deleting files

Removes selected or all files.

1. Tap ▶ and select an image.
2. Tap ☰ > 🗑 .
3. Select **Yes** to delete the selected file; select **Voice Only** to delete voice memo only; select **All** to delete all files. To select multiple files, tap **Select** and tap more files. Then tap OK.

Resize

Changes an image to a smaller size.

To resize an image:

1. Tap ▶ and select an image.
2. Tap ☰ > ⋯ > 📷 > **Resize**.
3. Select the new image size and the quality level.
4. Tap **Overwrite** to replace the current image file, or **Save as** to save to another file.

Voice memo

Inserts a voice annotation to an image file.

To add a voice memo:

1. Tap ▶ and select an image.
2. Tap ☰ > ⋯ > 📷 > **Voice memo**.
3. Tap ● to start recording your voice. Tap ■ again to stop. When viewing the image later, the icon 🎤 indicates that a voice memo is attached.

Red-eye Removal

Removes appearance of red eyes in an image.

To remove appearance of red eyes:

1. Tap ▶ and select an image.
2. Tap ☰ > ••• > 📷 > **Red-eye Removal**. Then tap OK.
3. Tap **Overwrite** to replace the current image file, or **Save as** to save to another file.

Effect

Changes the color tone of an image.

Icon	Option	Description
	Normal	No effect is added to the image.
SEP	Sepia	Recorded image will be stored in a sepia tone.
B&W	B&W	Convert image to black & white.
NEG	Negative	Opposite what they were in the original image.
MOS	Mosaic	Apply mosaic tile effects to the image.
ViR	Vivid Red	The image becomes reddish.
ViG	Vivid Green	The image becomes greenish.
ViB	Vivid Blue	The image becomes bluish.

To add a special effect:

1. Tap ▶ and select an image.
2. Tap ☰ > ••• > 📷 > **Effect**.
3. Select the effect you want to apply. Then tap OK.
4. Tap **Overwrite** to replace the current image file, or **Save as** to save to another file.

Bundled software

The camera provides the following programs on a CD.

ArcSoft PhotoImpression 5	Combines photo editing with creative enhancement and sharing tools that maximize your digital media experience.
ArcSoft VideoImpression 2	Creates multimedia presentations by combining photos and video clips with audio, text and scene transitions.

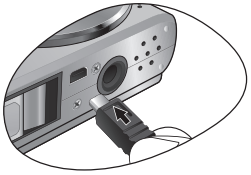
To install these programs, see the information supplied with the CD.

Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files.

To connect the camera to a computer:

1. Connect the end of the smaller plug of the USB cable to the camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. Tap **Mass Storage** on the screen of your camera.
4. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.



- When connecting the camera to a computer, it is necessary to install a battery into the camera.
- When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

Connecting the camera to an AV system

You can play files in your camera with an AV system, such as a TV or projector.

To connect the camera to an AV system:

1. Connect the end of the smaller plug of the AV cable to the camera.
2. Connect the yellow video plug and the white audio plug of the AV cable to a video-input jack and an audio-input jack (left channel) on your AV system.
3. Turn on the AV system, and then switch to the AV source connecting to the camera.
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV or projector screen.

Printing images

In addition to printing images by connecting the camera to a printer via a computer or bringing the SD card (if available) to a photo-processing center, you can choose to print using PictBridge or DPOF.

Printing with Printer mode

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Turn off the camera.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Connect the other end of the USB cable to an available USB port on your printer.
4. Turn on the printer. Wait for a while until the printer is ready to print.
5. Turn on the camera.
6. Follow the on-screen instructions in your camera or printer to complete printing.

☞ The above procedure may vary depending on the printer type you are using.

Printing with DPOF

See "DPOF" on page 25.

Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
I cannot play back video clips by using Windows Media Player.	The MPEG-4 video compression method is in the XviD format. If the XviD codec is not installed, it might not be able to play back the video clips on your computer.	Make sure you are using Windows Media Player 9.0 or above. Be sure to install the free MPEG-4 codec driver in advance, available from bundle software or XviD web site: http://www.xvidmovies.com.
The camera cannot power up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Recharge the battery.
The battery power is draining quickly.	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
	The battery was not fully charged, or it has not been used for an extended period of time after being charged.	Fully charge the battery and discharge it for at least one complete cycle before use.
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The flash does not fire or recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.

I cannot download images from the camera to my computer.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Recharge the battery.
The camera does not shoot even when pressing the shutter button.	The battery is running low.	Recharge the battery.
	The camera is not in the capture mode.	Switch to the capture mode.
	The shutter button was not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Turn on the camera, select PictBridge, and then connect to the printer.
Why sometimes I cannot completely use up the remaining number of pictures that can be taken on my memory card?	The remaining number of pictures shown on the screen is an estimated value, which may be different from the actual one depending on the compression ratios (may vary by scenes) when converting from RAW to JPG.	--
Why may some pictures look unclear or be read improperly during playback?	These pictures are taken by another camera.	Enlarging these pictures could solve the problem.

Technical support

For technical assistance, firmware updates, product information, user manual, and news releases, visit the following web site:

http://www.BenQ.com

Specifications

Image sensor	10M CCD; size: 1/2.3-inch
LCD display	3-inch LTPS LCD; 230 K dots
Zoom	Optical: 3X Digital: 5X (preview) / 12 (playback) Wise Zoom: 30X (Optical Zoom + Digital Zoom) when the image size is VGA (640 x 480); a different image size comes with a different maximum wise zoom ratio.
Lens	F3.1 ~ F5.6 Wide: 6.3mm (equivalent to 135 camera: 35.5mm) Tele: 18.9mm (equivalent to 135 camera: 106.5mm)
Focus	TTL Auto Focus
Focus range	Normal: 40 cm ~ Infinity Macro: 10cm ~ 60cm (Wide)
Shutter speed	1/2000 ~ 1 sec (Night Scene mode: 15 sec)
Scene mode	Auto, Program, Movie Record, Portrait, Landscape, Sports, Backlight, Night Scene, Beach, Snow, Fireworks, Night Portrait, Self Portrait, Building, Soft Flowing Water, Landscape Portrait, Web Auction, High ISO Portrait, Food, Museum, Candle Light, Party, Text, Child, Sunset, Flower, Pet, Smile Catch, Voice Rec.
Flash	Auto, Force off, Force on, Auto Anti Red-eye, Anti Red-eye and Slow Sync
Self-timer	10 & 2 sec. delay
Exposure compensation	-2 to +2 EV (in 0.3-step increments)
ISO	Auto, 100, 200, 400, 800, 1600 and 3200 (ISO 3200 is for images at 3 megapixels or lower.)
White balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent and Manual
File format	• Still Image: JPEG (Exif 2.2 compatible) and DCF compatible - 10 megapixels (3648 x 2736), 3:2 (3648 x 2432), 8 megapixels (3264 x 2448), 5 megapixels (2592 x 1944), 3 megapixels (2048 x 1536), HD (1920 x 1080) and VGA (640 x 480) • Video: AVI (for use on the camera only) - VGA (640 x 480), 16: 9 (848 x 480), QVGA (320 x 240), or Web sharing (640 x 480); 30 fps; continuous recording with sound until the memory card is full (except Web sharing) ☞ Videos captured in Web sharing mode are stored under the XXXUTUBE directory (XXX are numbers) with the file size limited to 100 MB or 10 minutes per video file (video recording will automatically stop). • Audio: WAV

Storage	• Internal: Built-in Approx. 9 MB (usable) • External: SD card in the following sizes: 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB, 4 GB, and up to 16 GB for SDHC. This camera is compatible with SD cards manufactured by Panasonic, Toshiba, and Sandisk. Please contact your local dealer for purchase information.
Playback options	Single image, thumbnails, slideshow, and audio/video playback
Interface	Digital output: USB 2.0 Compatible Audio/Video output (NTSC/PAL) PictBridge compatible / DPOF
Power source	Rechargeable Lithium-ion battery; CIPA 200PCS
Working temperature	0 - 40 degrees Celsius
Dimensions (W x H x D)	95 x 57 x 17.6 mm (slimmest 17 mm)
Weight	120 g (without battery & SD card)
System requirements	• Pentium III 600 Mhz or higher compatible CPU • 64 MB RAM • Optical disc drive • Windows Me/2000/XP/Vista128 MB free hard disk space • Available USB port

All information, designs, and specifications are subject to change without prior notice.